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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-03-22-01** **Date: 28-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka, Sub Division, BBMP, Bangalore.
Address	:	Yelahanka, Sub Division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-03-2017
Sample ID No	:	2017-03-22-01/01
Customer ID	:	Cement Concrete
Sample Type /Size	:	150x150x150 mm
Sample grade/Age	:	M20 / 7
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	20/03/2017	27/03/2017	150.32 X 150.45 X 150.22	22616	8.233	406.6	18.0	17.9
2	Cement Concrete	M20	20/03/2017	27/03/2017	150.12 X 150.14 X 150.29	22567	8.254	392.7	17.4	
3	Cement Concrete	M20	20/03/2017	27/03/2017	150.47 X 150.32 X 149.99	22568	8.154	410.7	18.2	

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-09-01** **Date: 15-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-2017
Sample ID No	:	2017-03-09-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	10-03-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	116	148	14.8	85.2	60-95	75-100	85-100	95-100
4	1.18 mm	101	249	24.9	75.1	30-70	55-90	75-100	90-100
5	600 micron	175	424	42.4	57.6	15-34	35-59	60-79	80-100
6	300 micron	312	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	210	946	94.6	5.4	0-10	0-10	0-10	0-15
8	Pan	54	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-09-01**

Sample ID No : 2017-03-09-01/03

Date: 15-03-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.42	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.9	Not more than 15 percent

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-09-01** **Date: 18-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-2017
Sample ID No	:	2017-03-09-01/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	10-03-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	107	107	2.14	97.86	95-100
3	10 mm	2608	2715	54.3	45.7	25-55
4	4.75 mm	2076	4791	95.82	4.18	0-5
5	Pan	209	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-09-01** **Date: 18-03-2017**

Sample ID No : 2017-03-09-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	10.6	_
2	Elongation Index(%)	12.1	_
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.19	_
7	Ten percent fine value(KN)	195.5	_
8	Aggregate crushing Value(%)	22.9	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	24.1	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-09-01**	**Date: 18-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.	
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.	
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	09-03-2017	
Sample ID No	:	2017-03-09-01/02(b)	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation	
Date of test	:	10-03-2017	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	191	191	3.82	96.18	95-100
3	20 mm	2376	2567	51.34	48.66	30-70
4	10 mm	1851	4418	88.36	11.64	10-35
5	4.75 mm	521	4939	98.78	1.22	0-5
6	Pan	61	5000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-09-01** **Date: 18-03-2017**

Sample ID No : 2017-03-09-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	14.6	_
2	Elongation Index(%)	12.9	_
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-09-01** **Date: 07-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency		B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-2017
Sample ID No	:	2017-03-09-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-03-2017 to 07-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	2.98%	–
2	Finess by Air permeablity method	281.6 M^2/Kg	225m^2/kg, Min
3	Density	3.32 gm/cc	–
5	Standard Consistency	27.5%	Not specified
6	Initial Setting time	245 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-03-09-01 **Date: 07-04-2017**

Sample ID No : 2017-03-09-01/01

7	Final Setting time	330 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1.0 mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2017-03-31-01** **Date: 01-04-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Agency : B.B Umesh SMLP Asphalts, Bettahalasoor V& Post, Bangalore North.

Project Name : Providing pot hole filling at Kempegowda ward No. 01 of Yelahanka Sub Division

Customer Reference : BBMP/EE(YNK.D)/W.O/123/2016-17

Source of Sample : Sample supplied by Agency

Date of Receipt : 31-03-17

Sample ID No : 2017-03-31-01/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 01-04-17

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.98	5.59
4	Average percentage	%	5.8	

Prepared By:
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Lab ID : **CP-RW-2017-03-31-01**
Sample ID : **2017-03-31-01/01**
Date: 01-04-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	79-100
9.5	54	61	12.9	87.1	70-88
4.75	154	215	45.6	54.4	53-71
2.36	50	265	56.1	43.9	42-58
1.18	28	293	62.1	37.9	34-48
0.6	20	313	66.3	33.7	26-38
0.3	61	374	79.2	20.8	18-28
0.15	40	414	87.7	12.3	12-20
0.075	38	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	79-100
9.5	87	92	19.5	80.5	70-88
4.75	101	193	40.8	59.2	53-71
2.36	70	263	55.6	44.4	42-58
1.18	41	304	64.3	35.7	34-48
0.6	27	331	70.0	30.0	26-38
0.3	55	386	81.6	18.4	18-28
0.15	14	400	84.6	15.4	12-20
0.075	42	442	93.4	6.6	4-10

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-03-07-01** **Date: 09-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-03-17
Oven Dry Weight(gm)	:	11500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	189	189	1.64	98.36	95-100
22.4	2376	2565	22.30	77.70	60-80
11.2	2282	4847	42.15	57.85	40-60
4.75	2417	7264	63.17	36.83	25-40
2.36	1965	9229	80.25	19.75	15-30
0.6	1055	10284	89.43	10.57	8-22
0.075	801	11085	96.39	3.61	0-8

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-03-17-01** **Date: 20-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	17-03-17
Oven Dry Weight(gm)	:	11100

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	201	201	1.81	98.19	95-100
22.4	2281	2482	22.36	77.64	60-80
11.2	2065	4547	40.96	59.04	40-60
4.75	2543	7090	63.87	36.13	25-40
2.36	1865	8955	80.68	19.32	15-30
0.6	1054	10009	90.17	9.83	8-22
0.075	756	10765	96.98	3.02	0-8

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2017-03-25-01 **Date: 27-03-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Agency : B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore North.

Project Name : Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub Division.

Customer Reference : BBMP/EE(YNK.D)/W.O/123/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-03-17

Sample ID No : 2017-03-25-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-03-17

Oven Dry Weight(gm) : 12000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	287	287	2.39	97.61	95-100
22.4	2659	2946	24.55	75.45	60-80
11.2	2176	5122	42.68	57.32	40-60
4.75	2871	7993	66.61	33.39	25-40
2.36	2054	10047	83.73	16.28	15-30
0.6	787	10834	90.28	9.72	8-22
0.075	622	11456	95.47	4.53	0-8

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R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2017-03-07-01
Customer	:	Assistant Executive Engineer, Yelahanka, Sub Division, BBMP, Bangalore.
Address	:	Yelahanka, Sub Division, BBMP, Bangalore.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V & Post, Bangalore
Project Name	:	Providing pot hole filling at Kempegowda ward No:01 of Yelahanka Sub
Customer Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-03-17

Date: 09-03-17

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.2	234.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	22.72	23.15
6	Aggregate impact value (Mean of two tests)	Pecentage	22.9	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro BANGALORE Sig..... Date.....

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End of Report

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-03-07-01** **Date: 09-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka, Sub Division, BBMP, Bangalore.
Address	:	Yelahanka, Sub Division, BBMP, Bangalore.
Agency	:	B.B Umesh SMLP Asphalts, Bettahalasoor V& Post, Bangalore North.
Project Name	:	Providing pot hole filling at kempegowda ward No. 01 of Yelahanka
Customer Reference	:	BBMP/EE(YNK.D)/W.O/123/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-03-17

Result:

Flakiness Index	11.7%
Elongation Index	12.4%
Combined Flakiness & Elongation Index	24.1%

Comments:

Maximum allowable Flakiness & Elongation Index is 30 %

Note:-
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End of Report

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